Cyber-Physical Resilience Tool Step-by-step Training Guide

CPR Incident Reporting Module ATOS/EVIDEN, Spain



Overview of the Cyber-Physical Resilience Tool

- + CPR (Cyber-Physical Resilience) Tool is developed under the SUNRISE project to enhance the cybersecurity posture of critical infrastructure (CI), particularly during complex events like pandemics. It aims to support security teams in managing digital threats that may arise alongside other challenges such as staff shortages or operational disruptions.
- + CPR integrates multiple modules to provide a holistic view of cyber threats. These include an anomaly detection system validated with real CI logs, a risk assessment module that incorporates temporary conditions and physical activity alarms, and a threat intelligence scoring component enhanced with source confidence evaluation.
- + The tool aligns with known frameworks such as MITRE ATT&CK for mapping Indicators of Compromise (IoCs), helping security analysts understand attack patterns more efficiently. It also includes features that support NIS 2 Directive compliance through its structured incident reporting module.
- + The CPR dashboard enables users to access risk reports, simulate mitigation strategies, and evaluate the effectiveness of cyber defense mechanisms in real-time. It is designed for ease of use, allowing operators to visualize and respond to threats across cyber and physical domains quickly and effectively.
- + CPR is especially valuable for operators of essential services, offering capabilities that strengthen incident awareness, improve response times, and support decision-making during both normal operations and crisis scenarios.

Content Overview

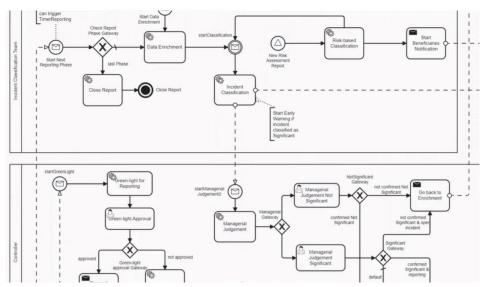


This step-by-step training guide provides an overview of the **CPR Incident Reporting Module**, part of the SUNRISE Cyber-Physical Resilience Tool. It is designed to help users understand and navigate the key features. It forms part of the training materials provided for the solution, alongside the <u>training video</u>.



TheHive Task Management



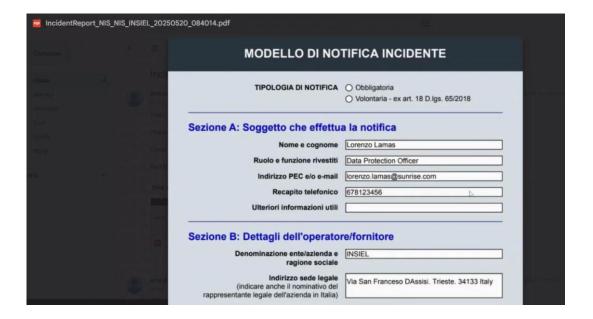




- + Upon registering an incident, tasks are automatically created in TheHive following the BPMN-defined workflow.
- + Tasks include stages such as **incident classification**, **managerial judgement**, and **risk re-evaluation**.
- Once the classification is confirmed, a managerial review task is launched to validate or adjust the classification decision.

Early Warning & Countermeasures Trigger

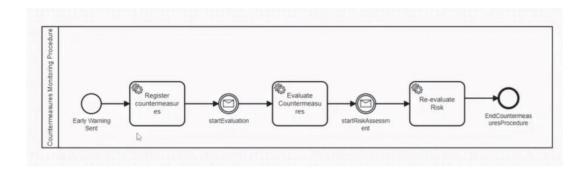


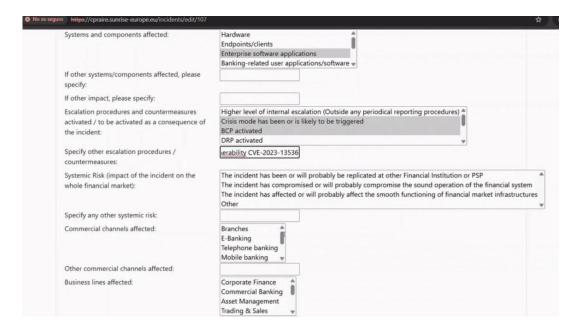




- If the incident is classified as Significant, an Early Warning is triggered according to the NIS2 directive.
- + An automatic **notification email** is sent to:
 - Service beneficiaries
 - Supervisory Authorities
- + Emails are configured through the CPR dashboard, with the **initial report PDF** automatically attached.

Countermeasures Evaluation & Integration

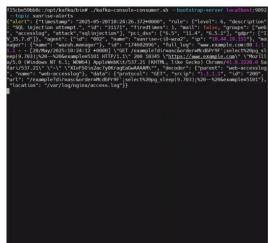






- + Countermeasures tasks are generated after the Early Warning.
- + Countermeasures received from CSIRTs can be:
 - Logged in TheHive
 - Registered via the AIRE dashboard
- + Once evaluation is complete, tasks are closed, and a **new risk report is triggered**.
- + Risk re-evaluation is handled by the **CPR Risk Assessment module** and can be visualised in the dashboard.

Risk Re-Evaluation Process









- + Risk updates are sent via **Kafka messages** to the CPR Risk Assessment module.
- + The system updates the **risk status** (e.g., from high to medium).
- + CERCA dashboard provides additional granularity on:
 - Asset-level risks
 - Impact of applied countermeasures

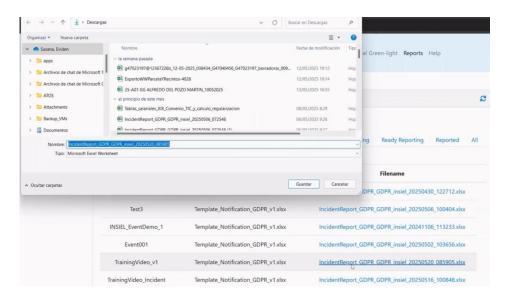
Data Conversion & Report Generation





- + After closing the managerial judgement task, a **Data Conversion** task is launched in TheHive.
- + This triggers automatic generation of reports for:
 - > NIS2
 - GDPR
- + The Incident Reporting Data Converter Responder creates tailored reports with:
 - Incident details
 - Indicators of Compromise (IOCs)
 - Risk assessment summaries

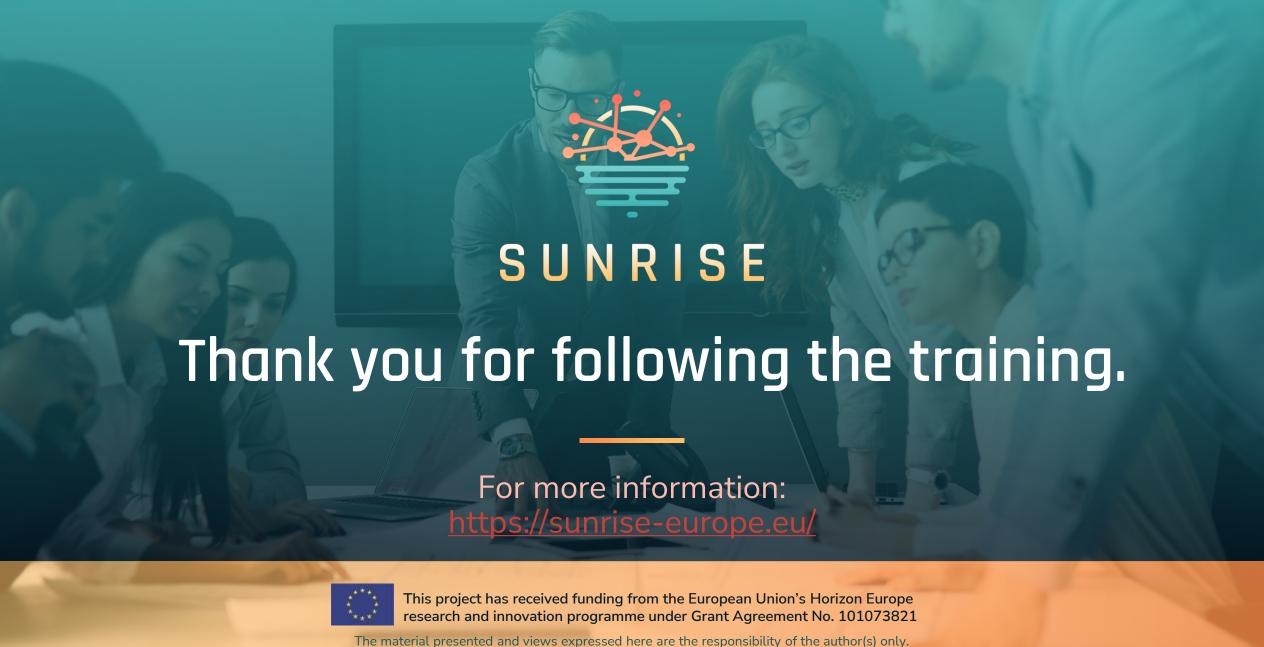
Review & Export of Reports







- + Reports are accessible from the **AIRE dashboard** and include:
 - Excel (GDPR): General info, breach specifics, IOCs, and risk analysis.
 - PDF (NIS2): Summary report, with annexes listing IOCs and risk reports.
- + Reports are ready for submission to Supervisory Authorities.



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